

PATENT ABSTRACTS OF JAPAN

(21) Application number: 04296516

(51) Intl. Cl.: H01L 21/22

(22) Application date: 09.10.92

JP06124911A

(30) Priority:

(43) Date of application
publication: 06.05.94(84) Designated contracting
states:

(71) Applicant: TOSHIBA CERAMIC

(72) Inventor: HONMA HIROYUKI
UMETSU YOSHIMI

(74) Representative:

(54) HORIZONTAL BOAT

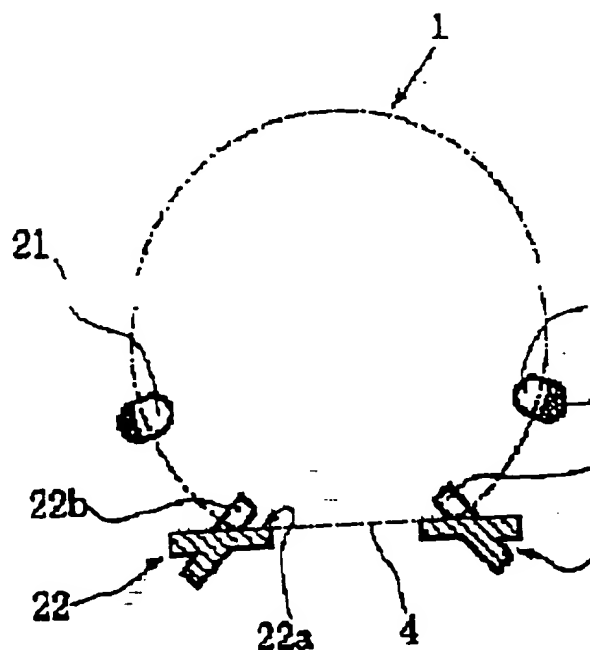
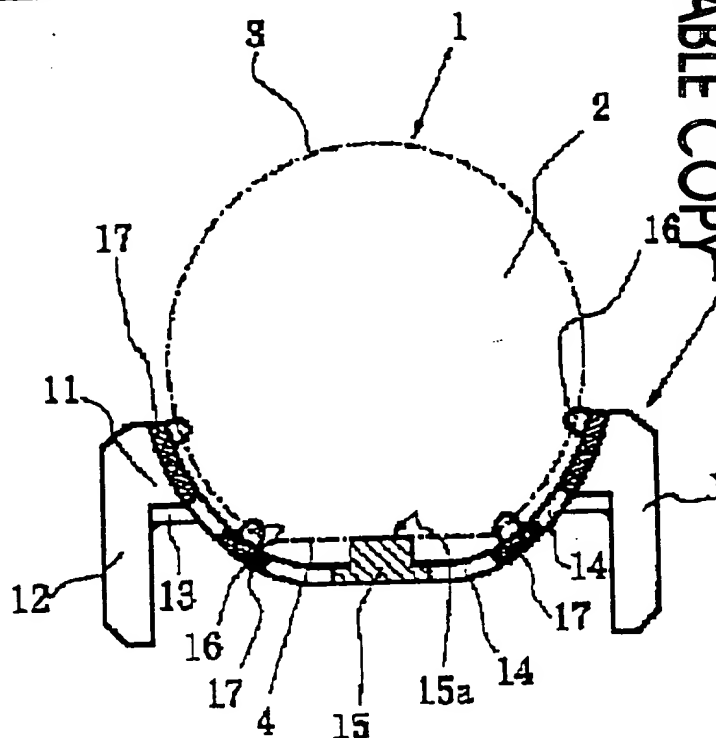
(57) Abstract:

PURPOSE: To provide a horizontal boat wherein an excessive stress is not generated during heat treatment and a wafer of high quality can be manufactured.

CONSTITUTION: In a horizontal boat whereon a plurality of semiconductor wafers are mounted, wafer load supporting members 15, 22 and wafer falling-down preventing members 17, 20, 22 are provided, the wafer load supporting members 15, 22 has flat supporting parts 15a, 22a, and the supporting parts 15a, 22a support the weight of a wafer 1. The wafer falling preventing members 17, 20, 22 have a plurality of grooves 16, 21, 22b and a sidewall of the grooves 16, 21, 22b prevents the wafer 1 from falling down. When the wafer 1 is mounted, a clearance is formed between a bottom of the grooves 16, 21, 22b and a wafer peripheral edge

face, and the wafer is arranged at a position whereon the grooves 16, 21, 22b and the supporting parts 15a, 22a shear in a circumferencial direction.

COPYRIGHT: (C)1994,JPO&Japio



BEST AVAILABLE COPY